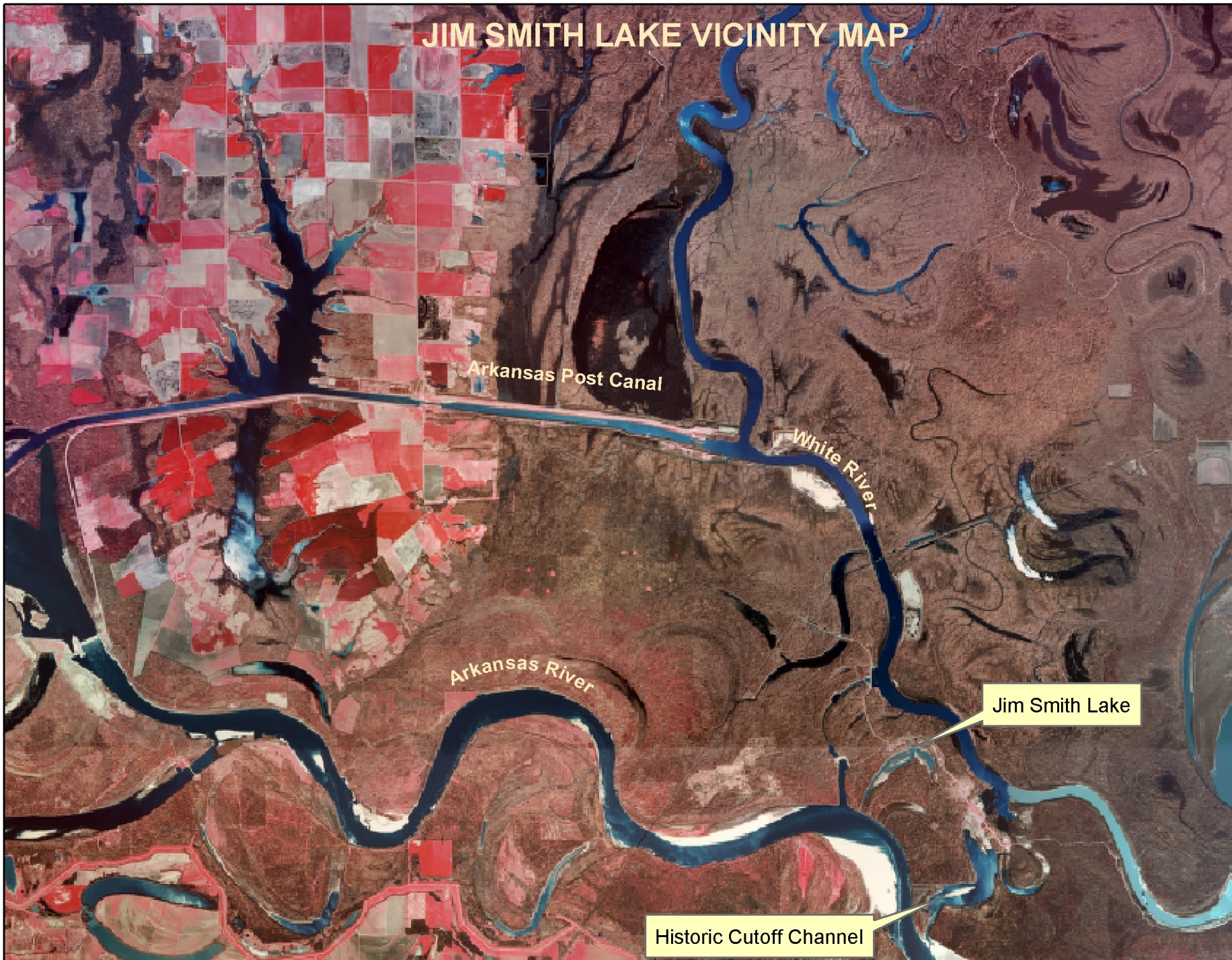
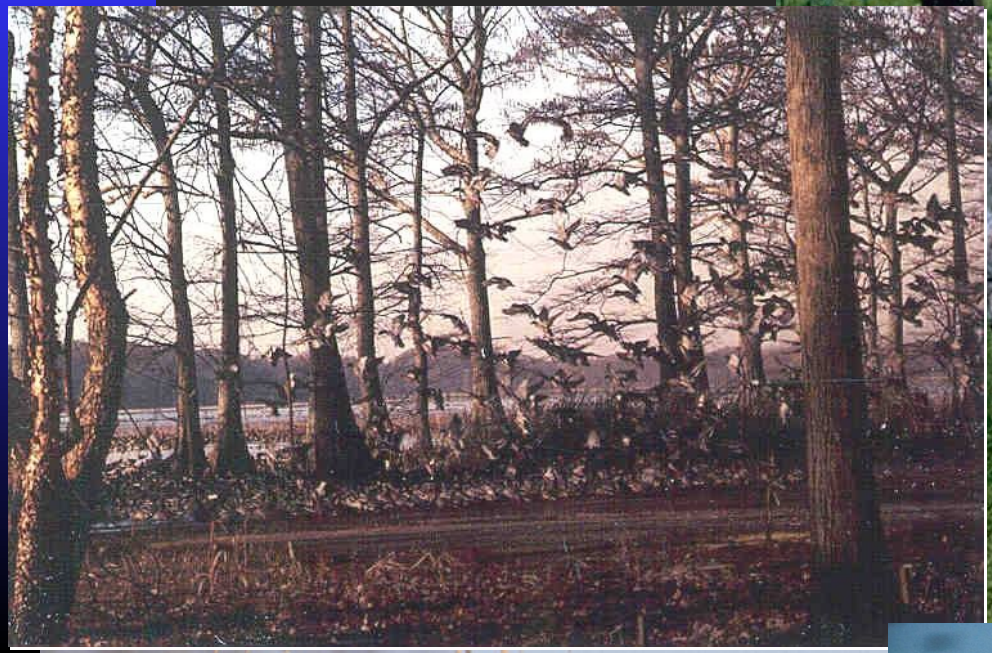
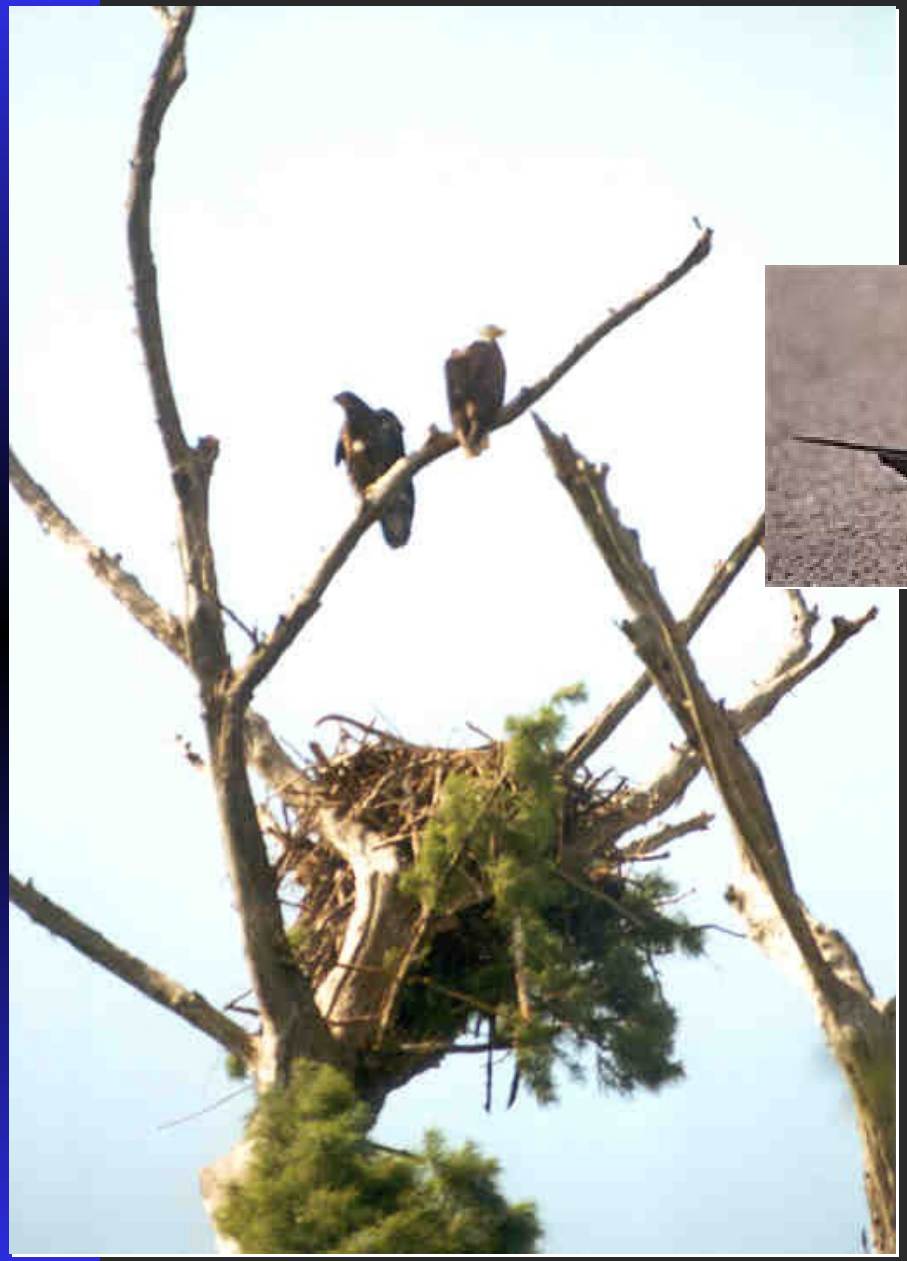
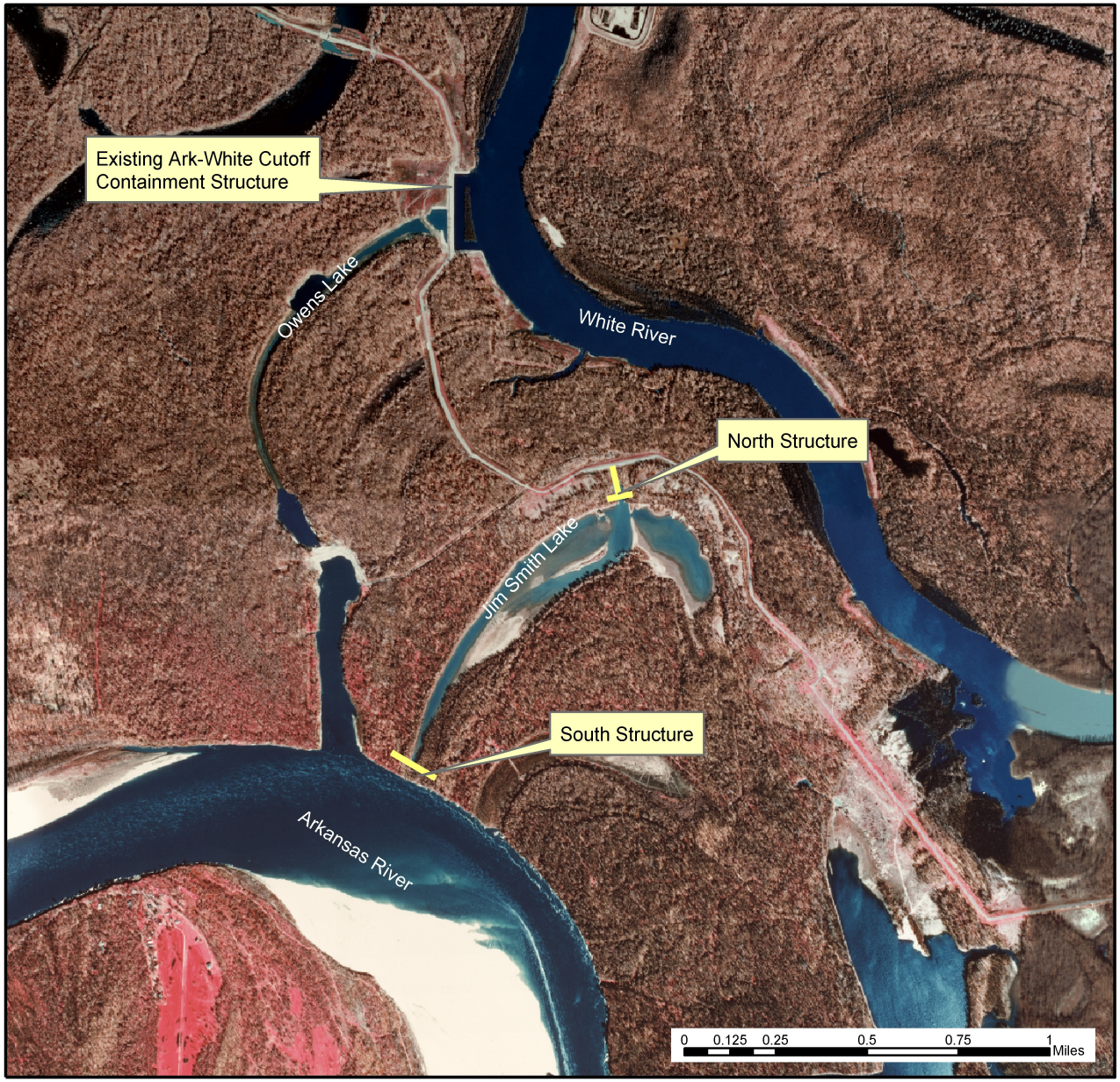

JIM SMITH LAKE VICINITY MAP
Arkansas Post Canal
White River
Arkansas River
Jim Smith Lake
Historic Cutoff Channel





Jim Smith Lake Headcut Control Project



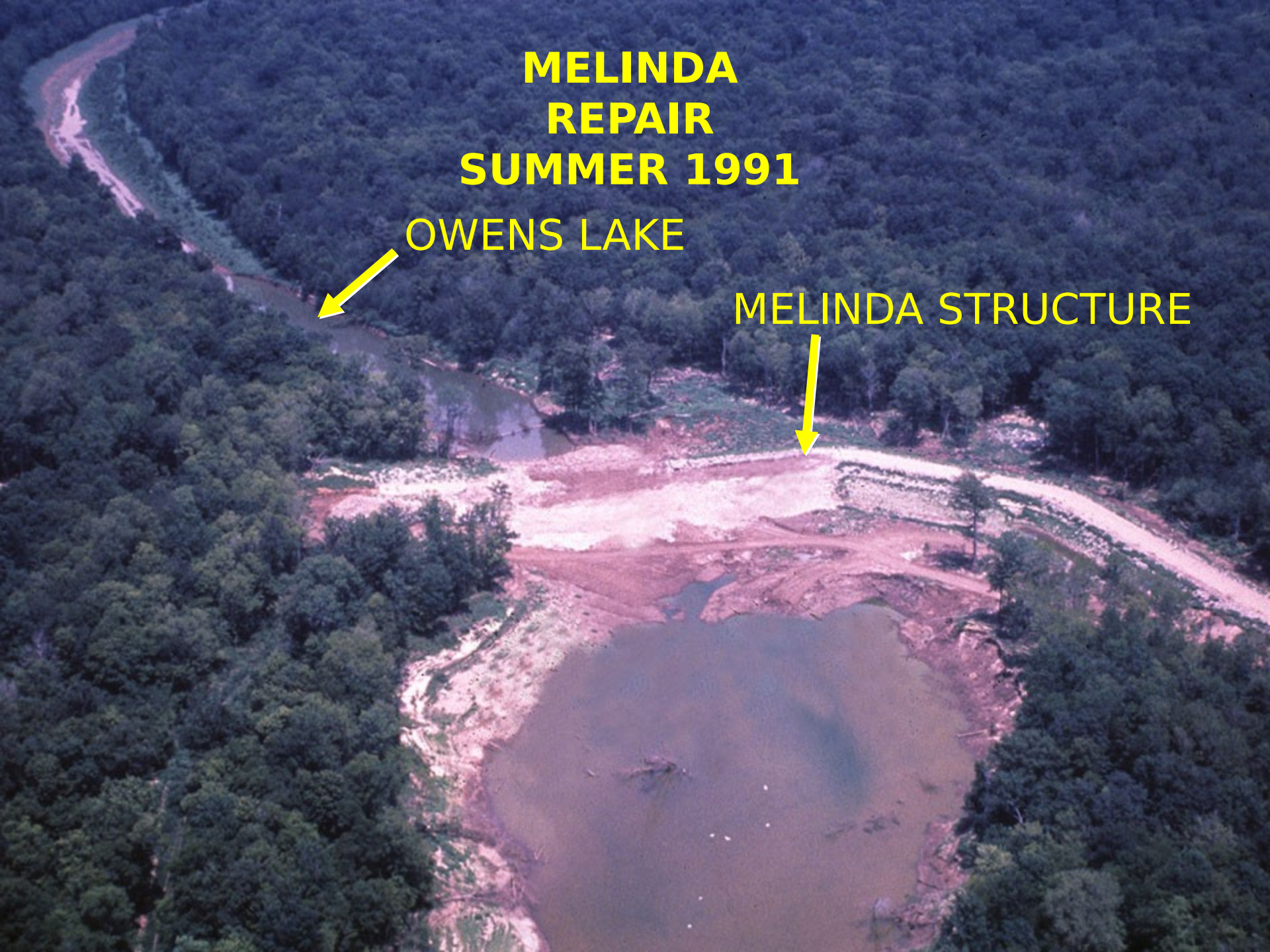
Project Location Map

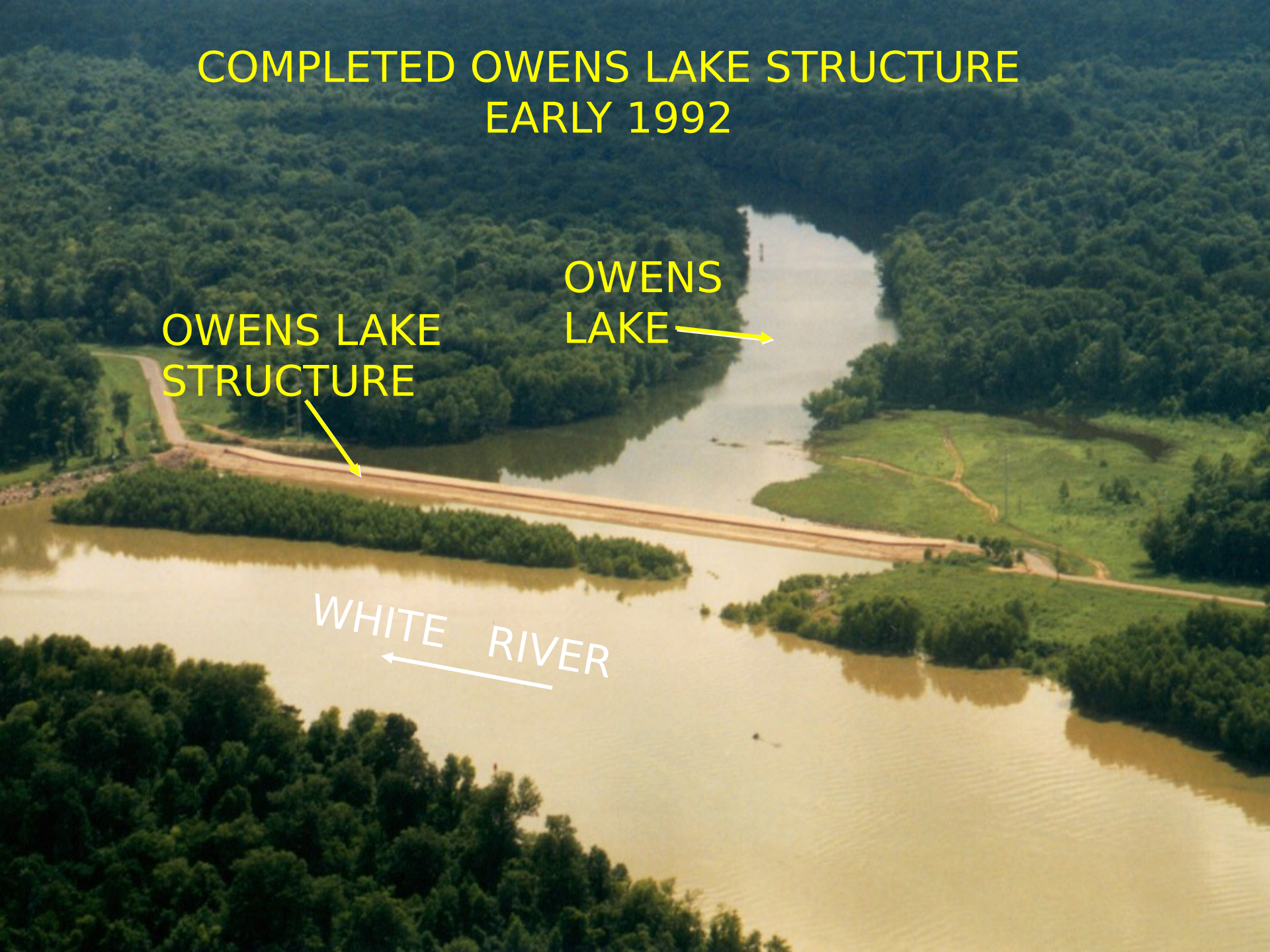
U.S. Army Corps of Engineers
Little Rock District

N

Soil-Cement
Containment Levee
SOIL-CEMENT CONTAINMENT
LEVEE, EL. 150 AND 152

COMPLETED MELINDA STRUCTURE
DECEMBER 1989
TO ARK. RIVER


MELINDA
REPAIR
SUMMER 1991
OWENS LAKE
MELINDA STRUCTURE


COMPLETED OWENS LAKE STRUCTURE
EARLY 1992
OWENS LAKE
OWENS LAKE STRUCTURE
WHITE RIVER

PROGRESSION OF HEADCUT & BANK EROSION

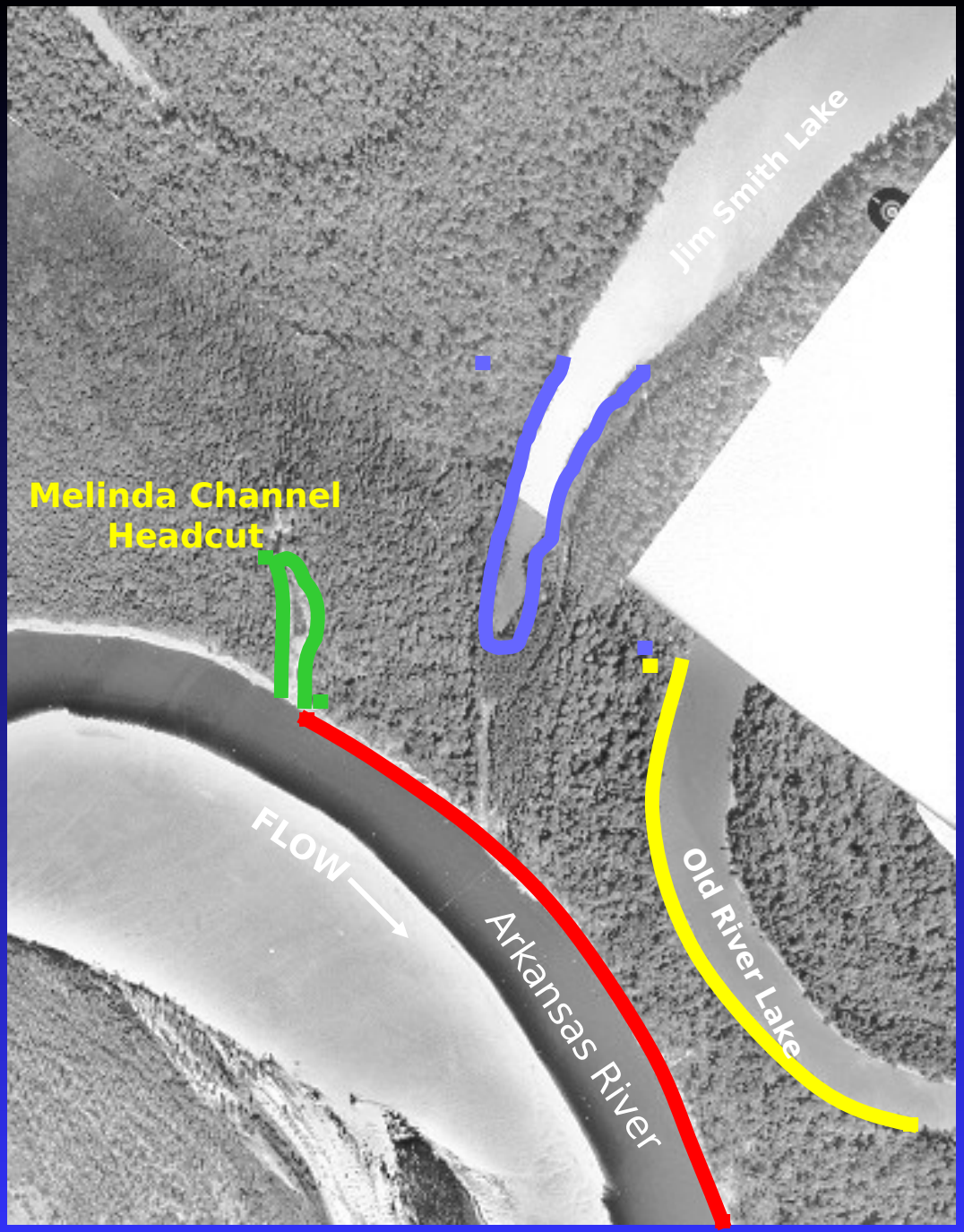
1975

Melinda Channel

Jim Smith Lake

Old River Lake

Arkansas River



PROGRESSION OF HEADCUT & BANK EROSION

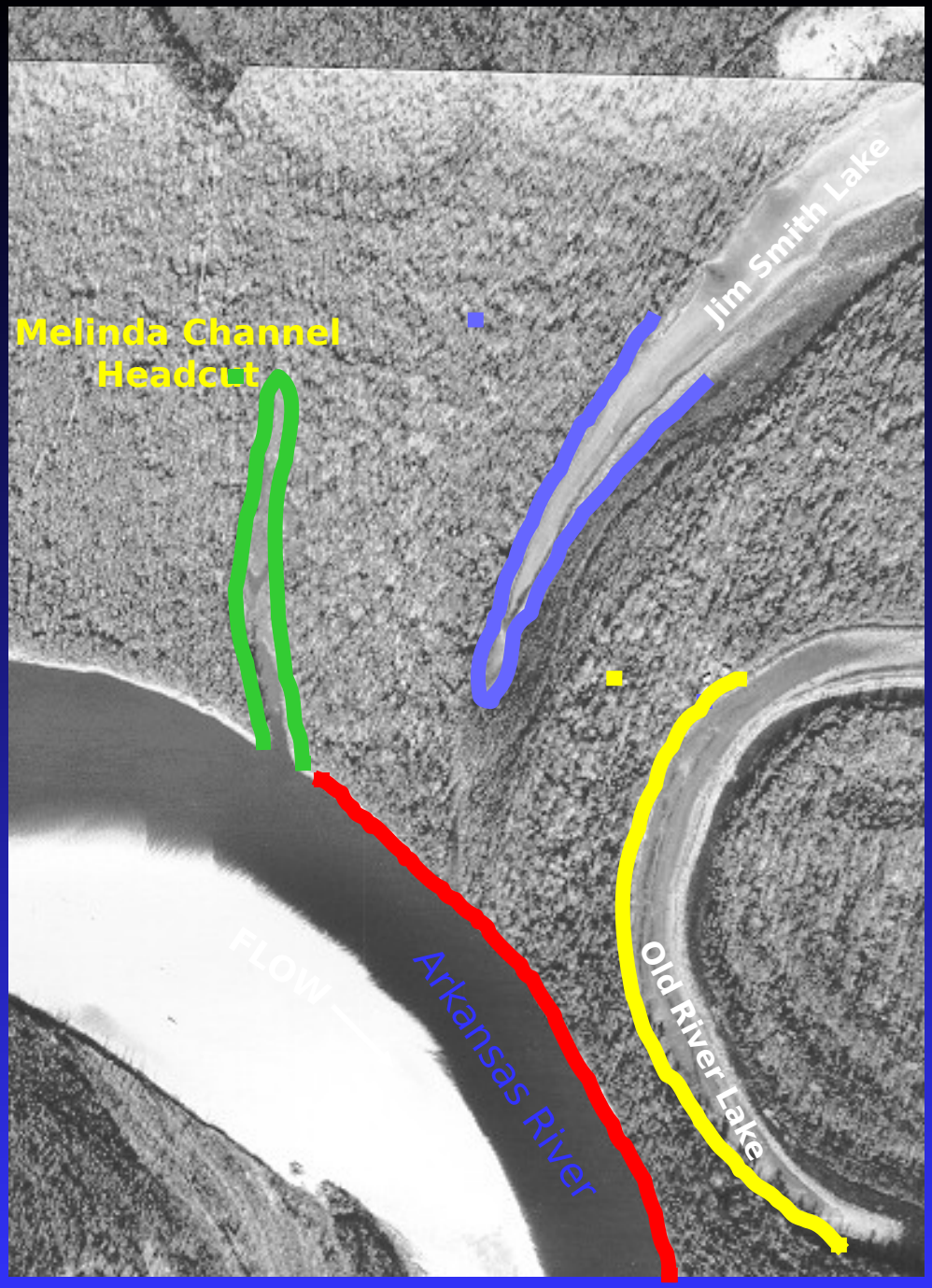
1981

Melinda Channel

Jim Smith Lake

Old River Lake

Arkansas River



PROGRESSION OF HEADCUT & BANK EROSION

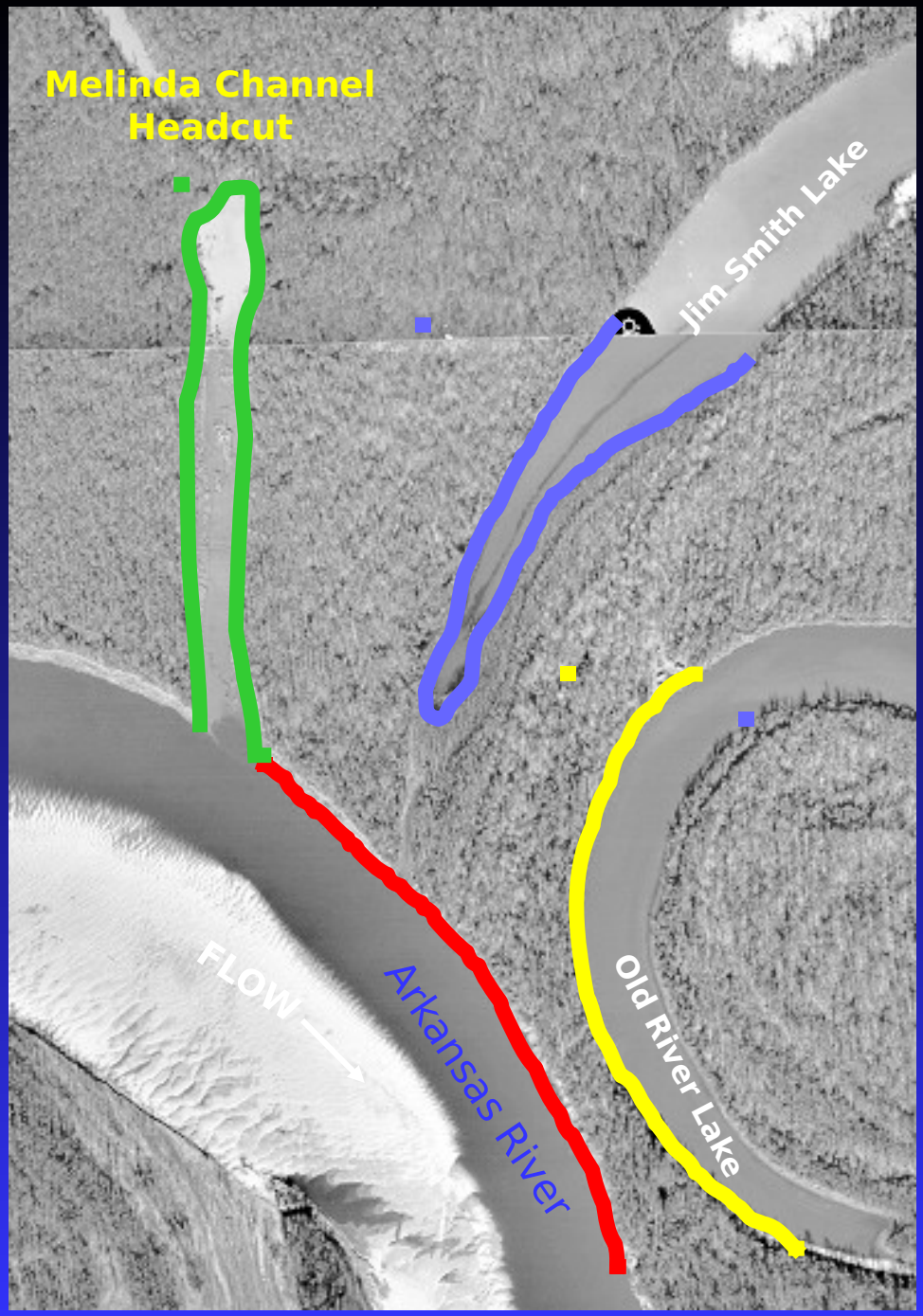
1984

Melinda Channel

Jim Smith Lake

Old River Lake

Arkansas River



PROGRESSION OF HEADCUT & BANK EROSION

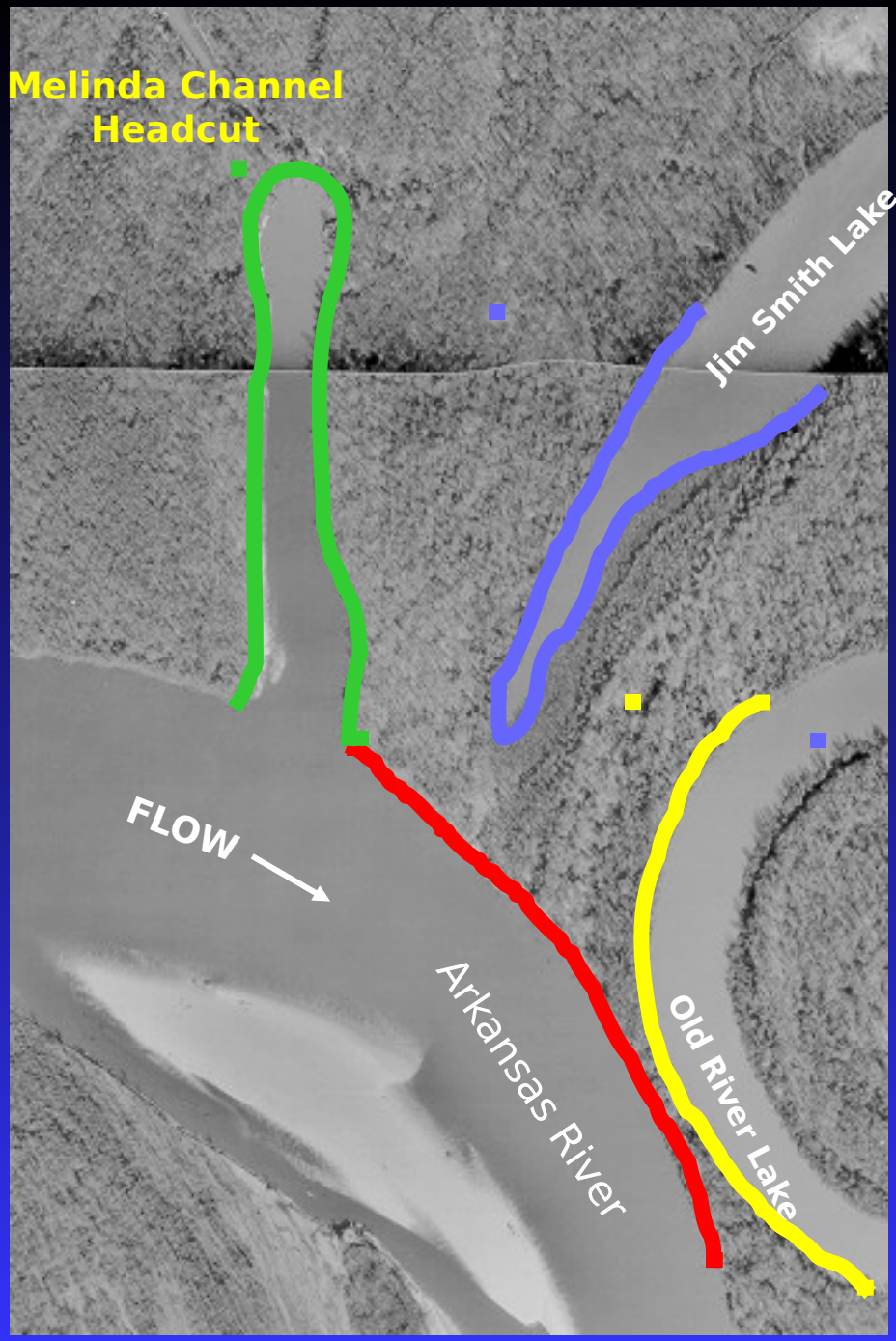
1987

Melinda Channel

Jim Smith Lake

Old River Lake

Arkansas River



PROGRESSION OF HEADCUT & BANK EROSION

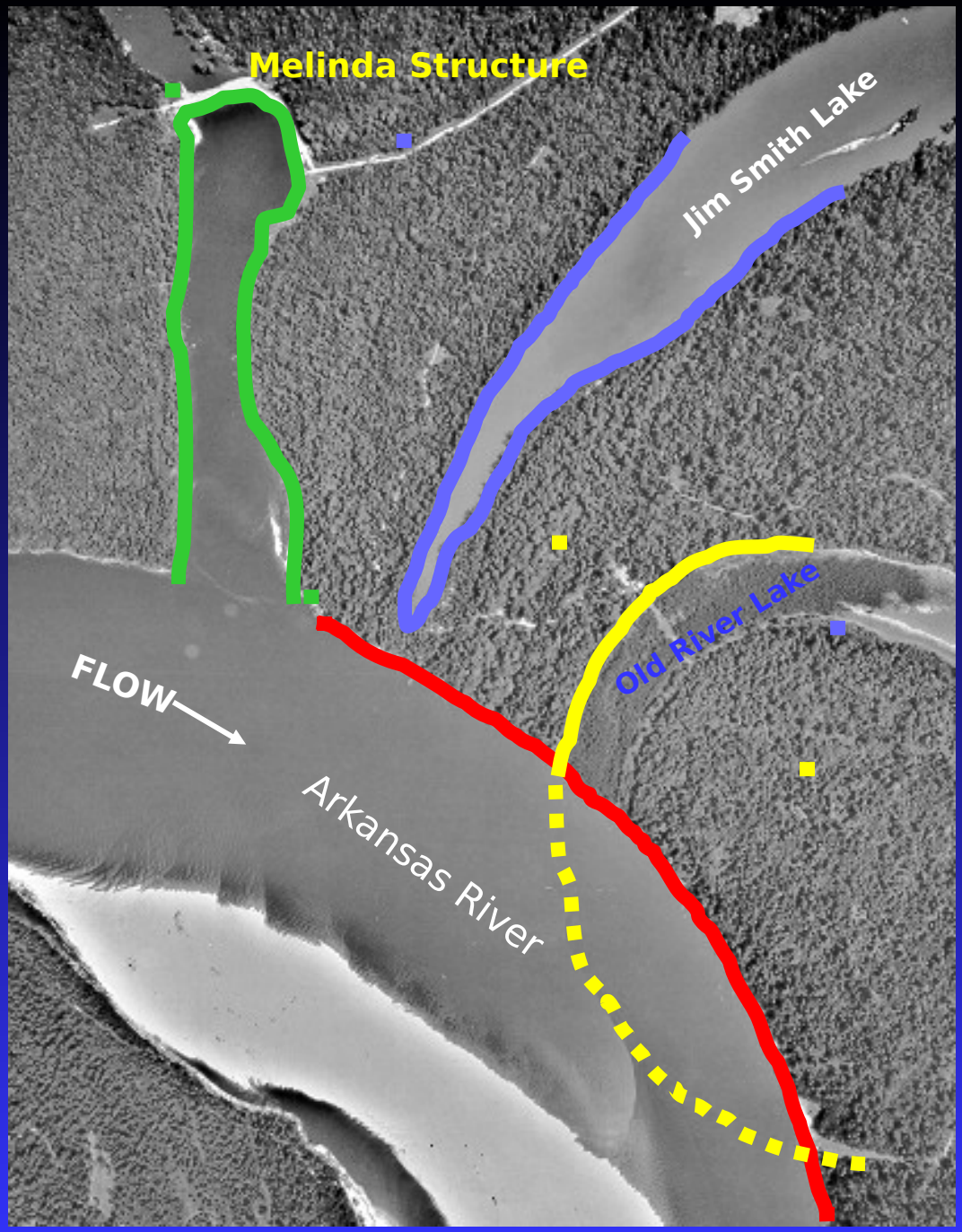
1997

Melinda Channel

Jim Smith Lake

Old River Lake

Arkansas River



Headcut/Notch at North End of Jim Smith Lake April 2002

Headcut/Notch at North End of Jim Smith Lake
August 2002

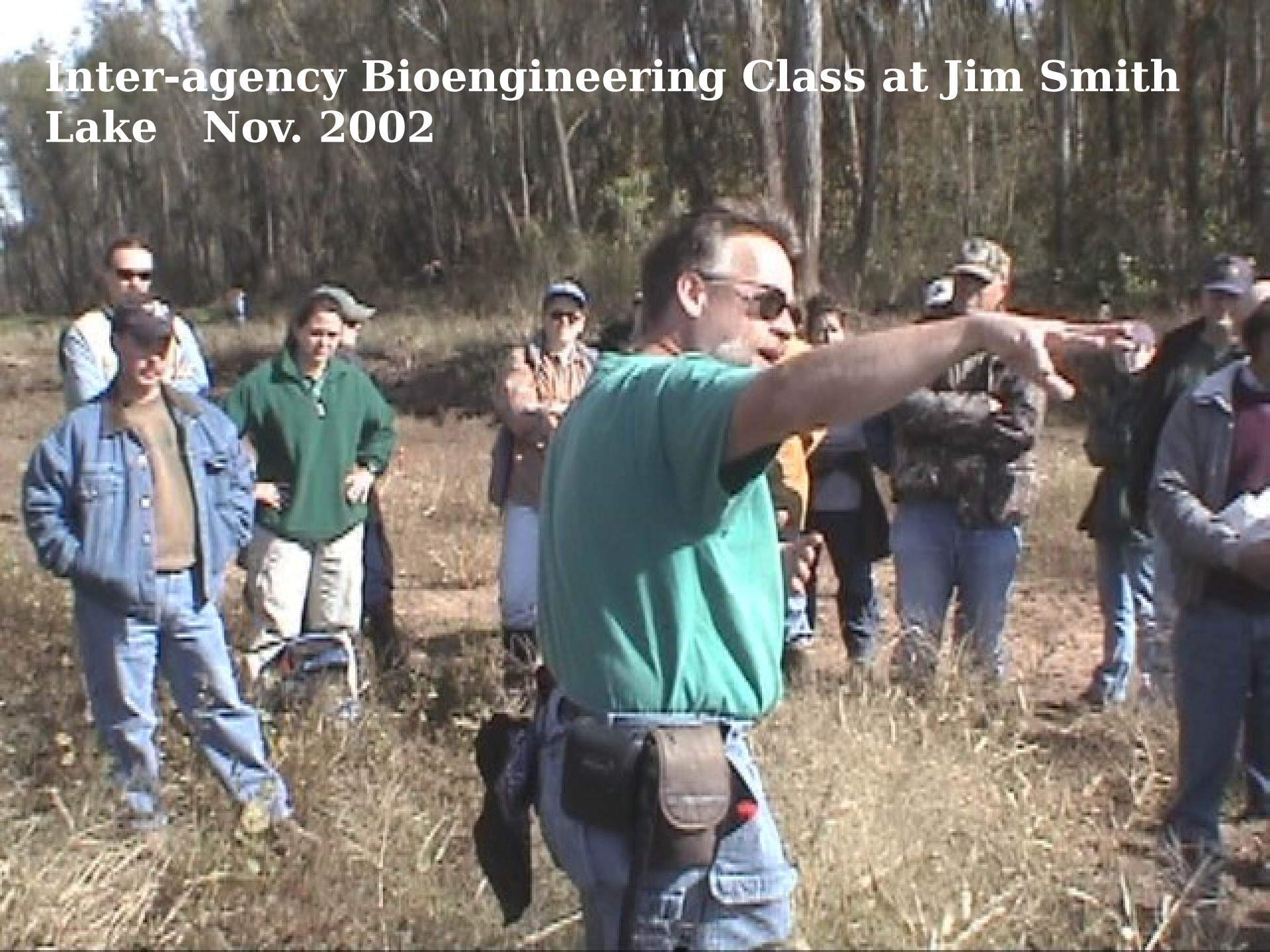
Grade Control (Road) at South End of Jim Smith Lake
April 2002

South End of Jim Smith Lake at Grade Control (Road)

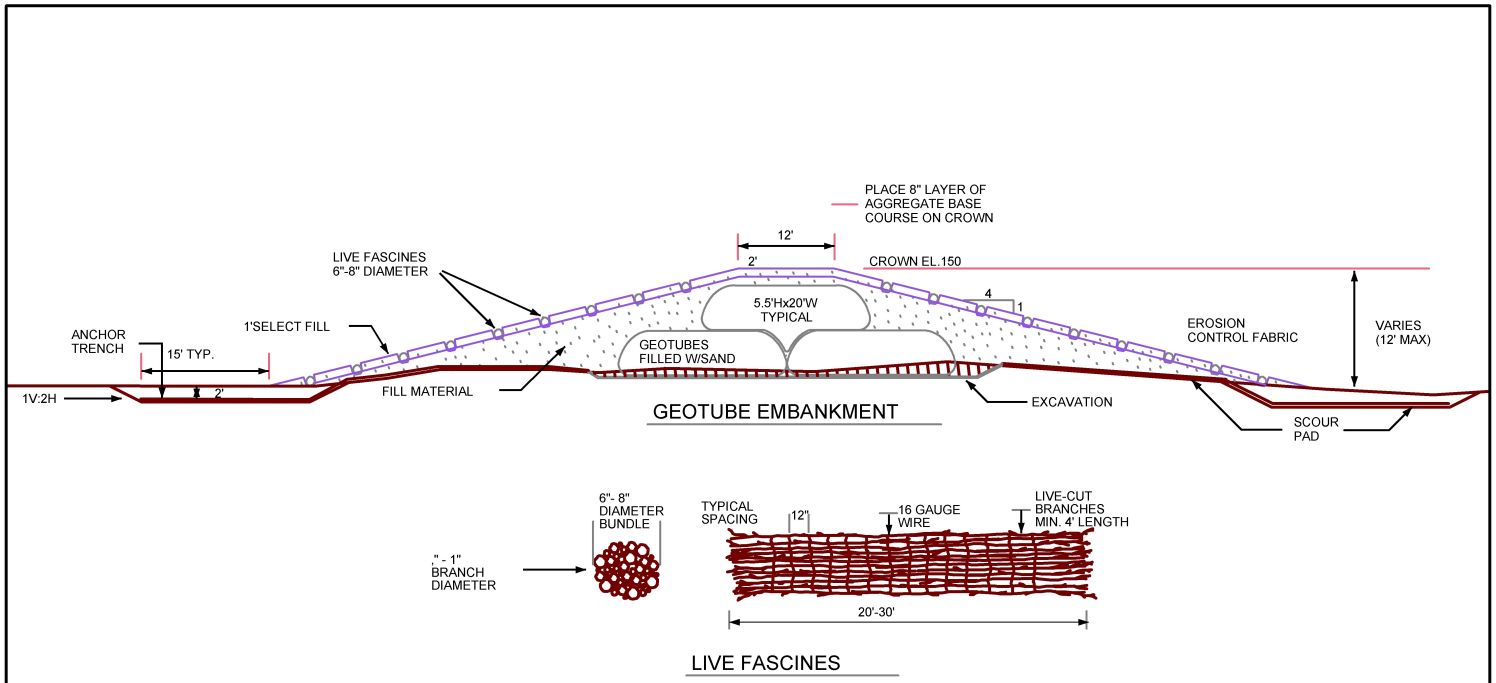
South End of Jim Smith Lake June 2002

South End of Jim Smith Lake August 2002

North End of Jim Smith Lake
August 2002


Inter-agency Bioengineering Class at Jim Smith Lake Nov. 2002

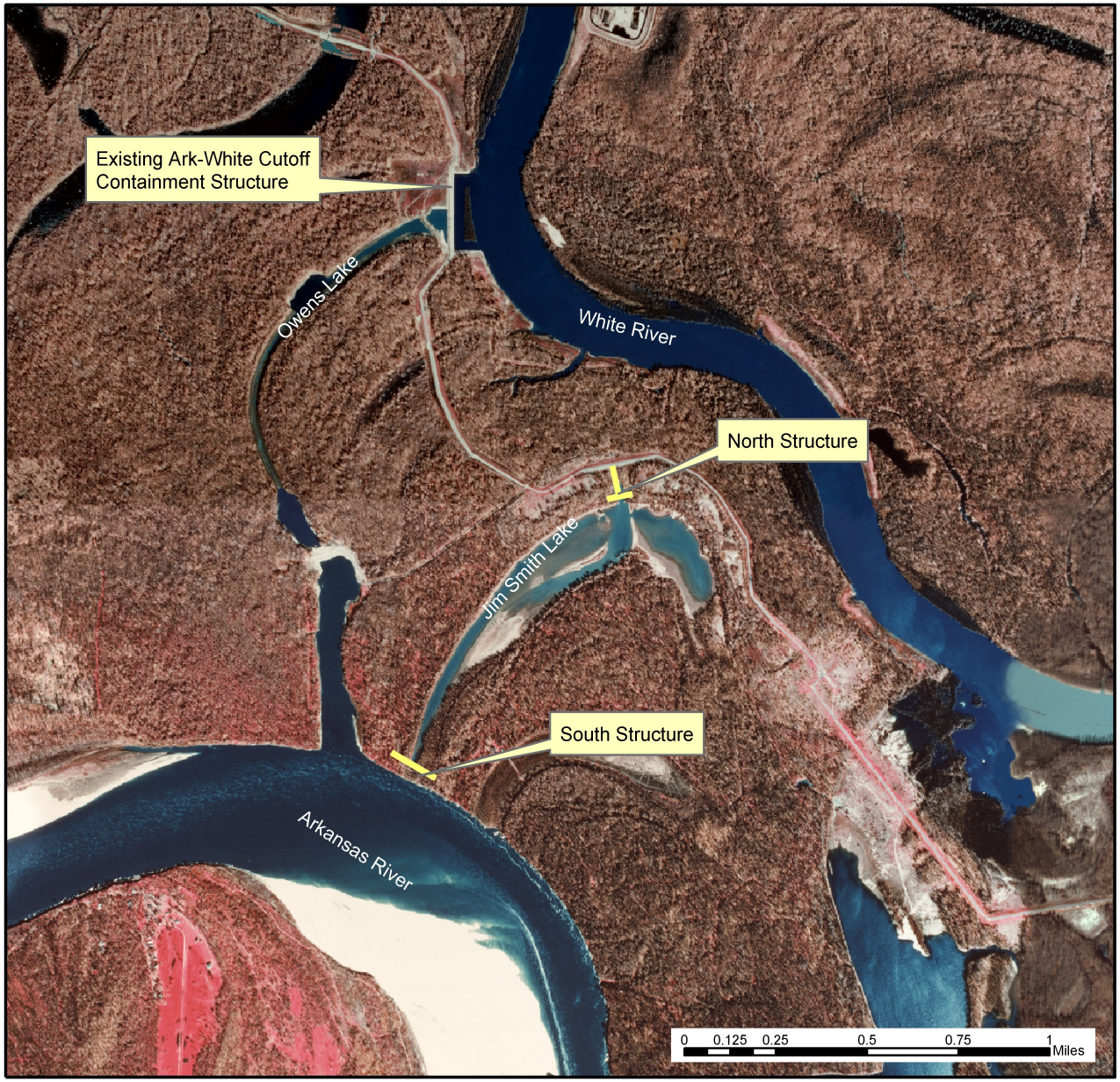
Jim Smith Lake Headcut Control Project



TYPICAL CROSS-SECTION OF THE NORTH AND SOUTH STRUCTURES AND A DETAIL OF THE FASCINES.

U.S. Army Corps of Engineers
Little Rock District

Jim Smith Lake Headcut Control Project



Project Location Map

U.S. Army Corps of Engineers
Little Rock District

N

Jim Smith Lake Outlet Channel
November 2004

Geotube Construction at North End of Jim Smith Lake

Geotube Construction North End of Jim Smith Lake

ing T-shaped Geotube Structure at North End of Jim
Lake

Headcut Adjacent to the White

Typical View of Lower Arkansas River